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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

13987G

NCP0001118

Tar Heel 19-18 FC CDP Sales

Sample Point Code

Sample Point Name

Sample Point Location

Laboratory Services

2022052901

1795

Jason F - Spot

Source Laboratory

Lab File No

Container Identity

Sampler

USA

USA

USA

New Mexico

District

Area Name

Field Name

Facility Name

Mar 31, 2022 11:25

Mar 31, 2022 11:25

Apr 5, 2022 09:17

Apr 5, 2022

Date Sampled

Date Effective

Date Received

Date Reported

64.00

6,987.40

Luis

60 @ 104

Ambient Temp (°F)

Flow Rate (Mcf)

Analyst

Press PSI @ Temp °F
Source Conditions

Coterra

NG

Operator

Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	0.6640	0.6638	
CO2 (CO2)	0.1270	0.12673	
Methane (C1)	73.7290	73.73002	
Ethane (C2)	12.3660	12.36565	3.3060
Propane (C3)	6.4530	6.4525	1.7770
I-Butane (IC4)	0.9930	0.99315	0.3250
N-Butane (NC4)	2.4490	2.44943	0.7720
I-Pentane (IC5)	0.6670	0.66683	0.2440
N-Pentane (NC5)	0.8490	0.84925	0.3080
Hexanes Plus (C6+)	1.7030	1.70264	0.7390
TOTAL	100.0000	100.0000	7.4710

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type: Gas Chromatograph Device Make: Shimadzu
Device Model: GC-2014 Last Cal Date: Jan 24, 2022

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,391.0000	1,368.2	1,394.2	1,371.4

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real

Relative Density Ideal

0.8082

0.8048

Molecular Weight

23.3150

C6+ Group Properties

Assumed Composition

C6 - 60.000% C7 - 30.000% C8 - 10.000%

Field H2S

0 PPM

PROTREND STATUS:

Passed By Validator on Apr 6, 2022

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

OK

ROCLINK 800 - [Periodic History: A2G2 - TAR HEEL 19-18 CTB]

File Edit View

Periodic History: A2G2 - TAR HEEL 19-18 CTB
Uploaded: 04/07/2022 12:10:57 Operator: (N)

Here you can see static pressure was below flare valve set point but the hourly volumes kept climbing

	Date/Time	NVP00011 CURDP AVG	CURSP AVG	CURTMP AVG	MULVAL AVG	RWPL AVG	DRFV 6 FLOACC TOTAL	DRFV 6 ENGACC TOTAL
1	04/07/2022 12:00:00	7.1032	47.4281	98.8404	9711.5950	14.5556	49.6317	67.7274
2	04/07/2022 11:00:00	3.8674	43.4404	85.5512	9758.7110	13.0567	45.9522	62.7055
3	04/07/2022 10:00:00	4.0050	63.0150	76.0676	9853.3080	15.5113	108.7732	148.4318
4	04/07/2022 09:00:00	3.2023	61.0231	69.6954	9925.3590	13.3741	77.7892	106.1510
5	04/07/2022 08:00:00	0.5888	68.8693	63.3688	10044.9000	6.3081	12.0399	16.4296
6	04/07/2022 07:00:00	45.3317	174.1820	122.2875	9481.4150	84.9978	141.2263	192.7182
7	04/07/2022 06:00:00	35.5325	180.0620	111.3496	9593.6260	77.5825	68.6770	93.7166
8	04/07/2022 05:00:00	0.0000	77.7815	42.7165	0.0000	0.0000	0.0000	0.0000
9	04/07/2022 04:00:00	0.0000	77.78	45.5898	0.0000	0.0000	0.0000	0.0000
10	04/07/2022 03:00:00	0.0000	77.8124	48.0659	0.0000	0.0000	0.0000	0.0000
11	04/07/2022 02:00:00	0.0000	78.9947	49.6229	0.0000	0.0000	0.0000	0.0000
12	04/07/2022 01:00:00	0.0000	79.6223	51.1883	0.0000	0.0000	0.0000	0.0000
13	04/07/2022 00:00:00	0.0000	81.0972	52.2447	0.0000	0.0000	0.0000	0.0000
14	04/06/2022 23:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
15	04/06/2022 22:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
16	04/06/2022 21:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
17	04/06/2022 20:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
18	04/06/2022 19:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
19	04/06/2022 18:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
20	04/06/2022 17:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
21	04/06/2022 16:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
22	04/06/2022 15:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
23	04/06/2022 14:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
24	04/06/2022 13:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
25	04/06/2022 12:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
26	04/06/2022 11:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
27	04/06/2022 10:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
28	04/06/2022 09:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
29	04/06/2022 08:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
30	04/06/2022 07:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
31	04/06/2022 06:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
32	04/06/2022 05:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
33	04/06/2022 04:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
34	04/06/2022 03:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000
35	04/06/2022 02:00:00	0.0000	81.5887	52.7700	0.0000	0.0000	0.0000	0.0000

On the right I'm pointing to actual hourly volume accumulation from the meter, on the left I'm pointing to average static pressure. We flared 68.6 MCF the first

Sheet1

22030 TAR HEEL 19-18-7 FED COM 1H-20H FLARE mt									
Date	Gas Flowed	Hours Flowed	Static Pressure	Differential Pressure	Line Pressure	Orifice Plate Diameter	Pipe Diameter	Pressure Base	
4/9/2022	367.00	0	90	0	77	6	7.981	14.73	

Flaring occurred as new wells are brought online causing

209 mcf on 4/7 and 367 on 4/9 brought about ETC (Gas Gatherer)

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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 100762

DEFINITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100762
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 100762

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100762
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Not answered.
Incident Facility	[fAPP2202685331] TAR HEEL 19-18 FED COM 1H-3H, 18H-20H

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 100762

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100762
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/07/2022
Time vent or flare was discovered or commenced	07:15 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	16

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Initial Flowback Separator Natural Gas Flared Released: 576 Mcf Recovered: 0 Mcf Lost: 576 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[267255] ENERGY TRANSFER PARTNERS, LP
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Flaring occurred as new wells are bring brought online causing 209 mcf on 4/7 and 367 on 4/9 brought about disruption in ETC (Gas Gatherer) system. The Tar Heel is a new development initiated in early April 2022.
Steps taken to limit the duration and magnitude of vent or flare	Field team monitoring new wells including compressor capacity and third party gas gather system.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	As noted Tar Heel facility is a new development and is being monitored.

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ACKNOWLEDGMENTS

Action 100762

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100762
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 100762

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 100762
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jacosta01	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/22/2022